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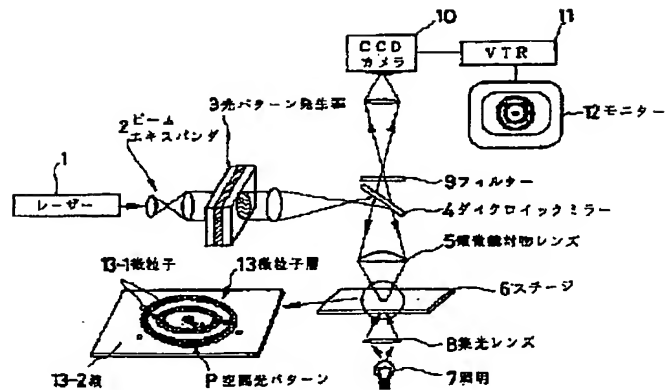
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APPLICANT : NIPPON TELEGR & TELEPH CORP
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TITLE : ARRAY CONTROL METHOD FOR
PARTICULATE



ABSTRACT : PURPOSE: To operate plural particulates such as single molecule at the same time and to selectively array and control the plural minute particulates in a two-dimensional space.

CONSTITUTION: The array control method for minute particulates consists of a process in which minute particulates 13-1 which are uniform or different in dimension, shape, and refractive index are layered, a process in which the layered minute particulates 13-1 are selectively arrayed in a surface by an optical trapping force based upon a space light pattern P from an light pattern generator 3 and a process in which a pattern array of the minute particulates in the surface is fixed by freezing of with a ultraviolet curing resin, etc. The plural minute particulates move by the trapping force based upon the space light pattern whose light intensity is controlled in two dimensions and are operated at the same time and arrayed in optional pattern.

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